

INTRAROSA- prasterone insert
Millicent US, Inc.

HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use INTRAROSA[®] safely and effectively. See full prescribing information for INTRAROSA[®].

INTRAROSA[®] (prasterone) vaginal inserts

Initial U.S. Approval: 2016

----- **INDICATIONS AND USAGE** -----

INTRAROSA[®] is a steroid indicated for the treatment of moderate to severe dyspareunia, a symptom of vulvar and vaginal atrophy, due to menopause. (1)

----- **DOSAGE AND ADMINISTRATION** -----

One vaginal insert, once daily at bedtime. (2)

----- **DOSAGE FORMS AND STRENGTHS** -----

Vaginal Insert: 6.5 mg of prasterone. (3)

----- **CONTRAINDICATIONS** -----

Undiagnosed abnormal genital bleeding. (4)

----- **WARNINGS AND PRECAUTIONS** -----

Current or Past History of Breast Cancer. (5.1)

----- **ADVERSE REACTIONS** -----

In four 12-week randomized, placebo-controlled clinical trials, the most common adverse reaction with an incidence \geq 2 percent was vaginal discharge. (6.1)

In one 52-week open-label clinical trial, the most common adverse reactions with an incidence \geq 2 percent were vaginal discharge and abnormal Pap smear. (6.1)

To report SUSPECTED ADVERSE REACTIONS, contact Millicent U.S. Inc at 1-877-810-2101 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

See 17 for PATIENT COUNSELING INFORMATION and FDA-approved patient labeling.

Revised: 11/2020

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FULL PRESCRIBING INFORMATION

1 INDICATIONS AND USAGE

INTRAROSA[®] is a steroid indicated for the treatment of moderate to severe dyspareunia, a symptom of vulvar and vaginal atrophy, due to menopause.

2 DOSAGE AND ADMINISTRATION

Administer one INTRAROSA vaginal insert once daily at bedtime, using the provided applicator.

3 DOSAGE FORMS AND STRENGTHS

Vaginal insert: 6.5 mg of prasterone, smooth, white to off-white solid fat bullet-shaped, measuring 28 mm in length, 9 mm in width at its wider end, and weighing 1.2 gram.

4 CONTRAINDICATIONS

Undiagnosed abnormal genital bleeding: Any postmenopausal woman with undiagnosed, persistent or recurring genital bleeding should be evaluated to determine the cause of the bleeding before consideration of treatment with INTRAROSA.

5 WARNINGS AND PRECAUTIONS

5.1 Current or Past History of Breast Cancer

Estrogen is a metabolite of prasterone. Use of exogenous estrogen is contraindicated in women with a known or suspected history of breast cancer. INTRAROSA has not been studied in women with a history of breast cancer.

6 ADVERSE REACTIONS

6.1 Clinical Trials Experience

Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of a drug cannot be directly compared to rates in the clinical trials of another drug and may not reflect the rates observed in practice.

In four (4) placebo-controlled, 12-week clinical trials [91% - White Caucasian non-Hispanic women, 7% - Black or African American women, and 2% - "Other" women, average age 58.8 years of age (range 40 to 80 years of age)], vaginal discharge is the most frequently reported treatment-emergent adverse reaction in the INTRAROSA treatment group with an incidence of ≥ 2 percent and greater than reported in the placebo treatment group. There were 38 cases in 665 participating postmenopausal women (5.71 percent) in the INTRAROSA treatment group compared to 17 cases in 464 participating postmenopausal women (3.66 percent) in the placebo treatment group.

In a 52-week non-comparative clinical trial [92% - White Caucasian non-Hispanic women, 6% - Black or African American women, and 2% - "Other" women, average age 57.9 years of age (range 43 to 75

years of age)], vaginal discharge and abnormal Pap smear at 52 weeks were the most frequently reported treatment-emergent adverse reaction in women receiving INTRAROSA with an incidence of ≥ 2 percent. There were 74 cases of vaginal discharge (14.2 percent) and 11 cases of abnormal Pap smear (2.1 percent) in 521 participating postmenopausal women. The eleven (11) cases of abnormal Pap smear at 52 weeks include one (1) case of low-grade squamous intraepithelial lesion (LSIL), and ten (10) cases of atypical cells of undetermined significance (ASCUS).

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Risk Summary

INTRAROSA is indicated only in postmenopausal women. There are no data with INTRAROSA use in pregnant women regarding any drug-associated risks. Animal reproduction studies have not been conducted with prasterone.

8.2 Lactation

Risk Summary

INTRAROSA is indicated only in postmenopausal women. There is no information on the presence of prasterone in human milk, the effects on the breastfed infant, or the effects on milk production.

8.4 Pediatric Use

Safety and effectiveness have not been established in pediatric patients.

8.5 Geriatric Use

Of the 1522 prasterone-treated postmenopausal women enrolled in the four placebo-controlled 12-week and one open-label 52-week clinical trial, 19 and 11 percent, respectively, were 65 years of age or older.

8.6 Renal Impairment

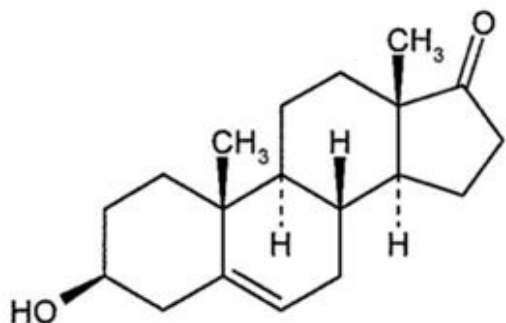
The effect of renal impairment on the pharmacokinetics of prasterone has not been studied.

8.7 Hepatic Impairment

The effect of hepatic impairment on the pharmacokinetics of prasterone has not been studied.

11 DESCRIPTION

INTRAROSA (prasterone) vaginal insert is a vaginally administered steroid. Prasterone is identified chemically as 3β -hydroxyandrost-5-en-17-one. It has the empirical formula $C_{19}H_{28}O_2$ with a molecular weight of 288.424 g/mol. Prasterone is a white to off-white crystalline powder insoluble in water and soluble in sodium lauryl sulfate (SLS). The structural formula is:



Each INTRAROSA (prasterone) vaginal insert contains 6.5 mg of prasterone in 1.3 ml of off-white hard fat (Witepsol).

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

Prasterone is an inactive endogenous steroid and is converted into active androgens and/or estrogens. The mechanism of action of INTRAROSA in postmenopausal women with vulvar and vaginal atrophy is not fully established.

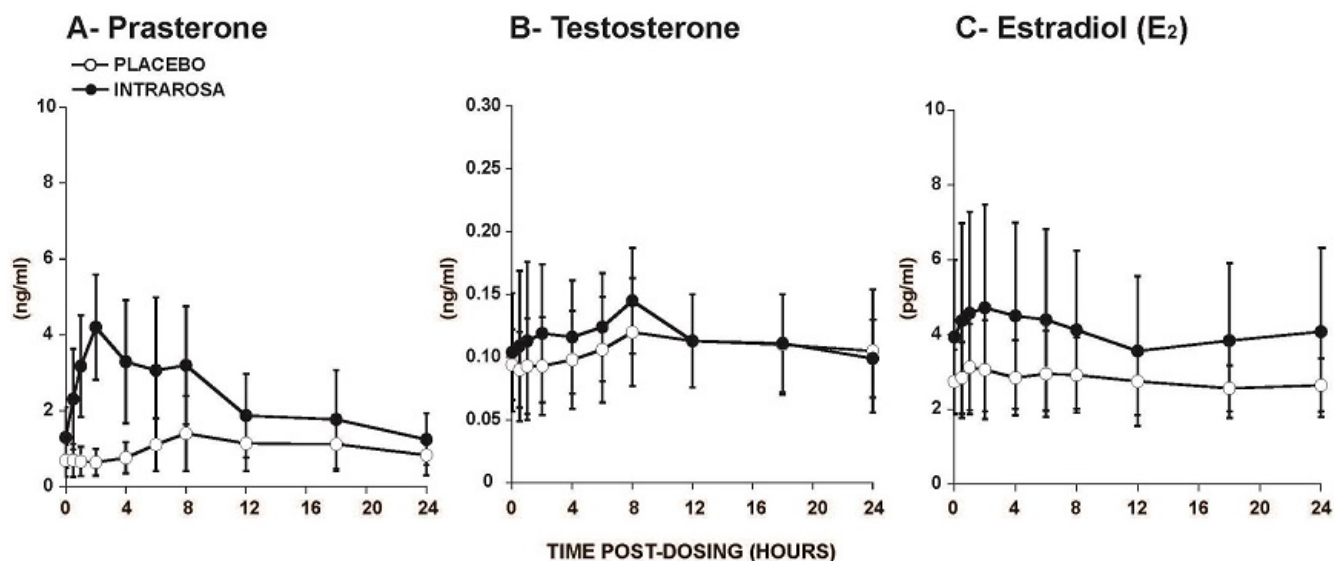
12.3 Pharmacokinetics

In a study conducted in postmenopausal women, administration of the INTRAROSA vaginal insert once daily for 7 days resulted in a mean prasterone C_{\max} and area under the curve from 0 to 24 hours (AUC₀₋₂₄) at Day 7 of 4.4 ng/mL and 56.2 ng·h/mL, respectively, which were significantly higher than those in the group treated with placebo (Table 1). The C_{\max} and AUC₀₋₂₄ of the metabolites testosterone and estradiol were also slightly higher in women treated with the INTRAROSA vaginal insert compared to those receiving placebo.

Table 1. C_{\max} and AUC₀₋₂₄ of Prasterone, Testosterone, and Estradiol on Day 7 Following Daily Administration of Placebo or INTRAROSA (mean ± SD).

		Placebo (N=9)	INTRAROSA (N=10)
Prasterone	C_{\max} (ng/mL)	1.60 (±0.95)	4.42 (±1.49)
	AUC ₀₋₂₄ (ng·h/mL)	24.82 (±14.31)	56.17 (±28.27)
Testosterone	C_{\max} (ng/mL)	0.12 (±0.04) ¹	0.15 (±0.05)
	AUC ₀₋₂₄ (ng·h/mL)	2.58 (±0.94) ¹	2.79 (±0.94)
Estradiol	C_{\max} (pg/mL)	3.33 (±1.31)	5.04 (±2.68)
	AUC ₀₋₂₄ (pg·h/mL)	66.49 (±20.70)	96.93 (±52.06)
1: N=8			

Figure 1. Serum Concentrations of Prasterone (A), Testosterone (B), and Estradiol (C) Measured Over a 24h Period on Day 7 Following Daily Administration of Placebo or INTRAROSA (mean ± SD).



In two primary efficacy trials, daily administration of INTRAROSA vaginal insert for 12 weeks increased mean serum C_{trough} of prasterone and its metabolites testosterone and estradiol by 47%, 21% and 19% from baseline, respectively. This comparison based on C_{trough} may underestimate the magnitude of increase in prasterone and metabolites' exposure because it does not take into account the overall concentration-time profile following administration of INTRAROSA.

Metabolism

Exogenous prasterone is metabolized in the same manner as endogenous prasterone. Human steroidogenic enzymes such as hydroxysteroid dehydrogenases, 5α -reductases and aromatases transform prasterone into androgens and estrogens.

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Carcinogenesis

Long-term studies in animals to evaluate carcinogenic potential have not been conducted with prasterone. Two metabolites of prasterone, testosterone and estradiol, are carcinogenic in animals.

Mutagenesis

Prasterone was not genotoxic in the in vitro bacterial mutagenesis assay (Ames test), the in vitro chromosomal aberrations assay with human peripheral blood lymphocytes, and in vivo in the mouse bone marrow micronucleus assay.

Fertility

Fertility studies were not conducted with prasterone.

14 CLINICAL STUDIES

The effectiveness of INTRAROSA on moderate to severe dyspareunia, a symptom of vulvar and vaginal atrophy, due to menopause was examined in two primary 12-week placebo-controlled efficacy trials.

The first clinical trial (Trial 1) was a 12-week randomized, double-blind and placebo-controlled trial that enrolled 255 generally healthy postmenopausal women between 40 to 75 years of age (mean 58.6 years) who, at baseline, identified moderate to severe dyspareunia as their most bothersome symptom of vulvar and vaginal atrophy. In addition to moderate to severe dyspareunia, women had $\leq 5\%$ superficial cells on vaginal smear and a vaginal pH > 5 . Women were randomized in a 1:1:1 ratio between three treatment groups who received daily INTRAROSA (n=87), one active comparator vaginal insert (n=87), or placebo (n=81). All women were assessed for improvement from Baseline to Week 12 for four co-

primary efficacy endpoints: most bothersome moderate to severe symptom of dyspareunia, the percentage of vaginal superficial cells, the percentage of parabasal cells, and vaginal pH.

The second clinical trial (Trial 2) was a 12-week randomized, double-blind and placebo-controlled trial that enrolled 558 generally healthy postmenopausal women between 40 to 80 years of age (mean 59.5 years) who, at baseline, had identified moderate to severe dyspareunia as their most bothersome symptom of vulvar and vaginal atrophy. In addition to dyspareunia, women had $\leq 5\%$ superficial cells on vaginal smear and a vaginal pH > 5 . Women were randomized in a 2:1 ratio to receive once daily vaginal insert containing 6.5 mg INTRAROSA (n=376) or placebo (n=182). The primary endpoints and study conduct were the same or similar to those in Trial 1.

The primary efficacy results obtained in the Intent-to-Treat (ITT) population in Trial 1 are shown in Table 2.

Table 2: Efficacy Summary in Primary 12-Week Trial 1: ITT Population (LOCF)

	Placebo N = 77	INTRAROSA N = 81
Dyspareunia		
Baseline Mean Severity	2.58	2.63
Week 12 Mean Severity	1.71	1.36
Mean Change in Severity (SD)	-0.87 (0.95)	-1.27 (0.99)
Difference from Placebo ¹	-	-0.40
p-value ²	-	0.0132
% Superficial Cells		
Baseline Mean	0.73	0.68
Week 12 Mean	1.64	6.30
Mean Change (SD)	0.91 (2.69)	5.62 (5.49)
Difference from Placebo ¹	-	4.71
p-value ²	-	<0.0001
% Parabasal Cells		
Baseline Mean	68.48	65.05
Week 12 Mean	66.86	17.65
Mean Change (SD)	-1.62 (28.22)	-47.40 (42.50)
Difference from Placebo ¹	-	-45.77
p-value ²	-	<0.0001
Vaginal pH		
Baseline Mean	6.51	6.47
Week 12 Mean	6.31	5.43
Mean Change (SD)	-0.21 (0.69)	-1.04 (1.00)
Difference from Placebo ¹	-	-0.83
p-value ²	-	<0.0001
¹ Difference from placebo =INTRAROSA (Week 12 mean – Baseline mean) – Placebo (Week 12 mean – Baseline mean).		
² ANCOVA: Treatment as the main factor and Baseline value as the covariate.		

The primary efficacy results obtained in the Intent-to-Treat (ITT) population in Trial 2 are shown in Table 3.

Table 3: Efficacy Summary in Primary 12-Week Trial 2: ITT Population (LOCF)

	Placebo N = 157	INTRAROSA N = 325
Dyspareunia		
Baseline Mean Severity	2.56	2.54
Week 12 Mean Severity	1.50	1.13
Mean Change in Severity (SD)	-1.06 (1.02)	-1.42 (1.00)
Difference from Placebo ¹	-	-0.35
p-value ²	-	0.0002
% Superficial Cells		
Baseline Mean	1.04	1.02
Week 12 Mean	2.78	11.22
Mean Change (SD)	1.75 (3.33)	10.20 (10.35)
Difference from Placebo ¹	-	8.46
p-value ²	-	<0.0001
% Parabasal Cells		
Baseline Mean	51.66	54.25
Week 12 Mean	39.68	12.74
Mean Change (SD)	-11.98 (29.58)	-41.51 (36.26)
Difference from Placebo ¹	-	-29.53
p-value ²	-	<0.0001
Vaginal pH		
Baseline Mean	6.32	6.34
Week 12 Mean	6.05	5.39
Mean Change (SD)	-0.27 (0.74)	-0.94 (0.94)
Difference from Placebo ¹	-	-0.67
p-value ²	-	<0.0001
¹ Difference from placebo =INTRAROSA (Week 12 mean – Baseline mean) – Placebo (Week 12 mean – Baseline mean).		
² ANCOVA: Treatment as the main factor and Baseline value as the covariate.		

16 HOW SUPPLIED/STORAGE AND HANDLING

16.1 How Supplied

INTRAROSA is supplied as white to off-white 1.3 mL solid fat bullet-shaped, smooth vaginal inserts (containing 6.5 mg of prasterone). INTRAROSA is available in small boxes of 4 blister packs containing 7 vaginal inserts (28 vaginal inserts per box). The small box (containing the vaginal inserts) is supplied inside a larger box containing 28 applicators (NDC 72495-401-28).

16.2 Storage and Handling

Store at 41°F to 86°F (5°C to 30°C). Can be stored at room temperature or in the refrigerator.

17 PATIENT COUNSELING INFORMATION

Advise the patient to read FDA-approved patient labeling (Patient Information and Instructions for Use).

Vaginal Discharge

Inform postmenopausal women that vaginal discharge may occur with INTRAROSA [see *Adverse Reactions (6.1)*].

Abnormal Pap Smear Findings

Inform postmenopausal women that abnormal Pap smear findings may occur with INTRAROSA [see *Adverse Reactions (6.1)*].

Manufactured for:

Endoceutics, Inc.

Quebec City, Canada, G1V 4M7

Distributed by:

Millicent U.S. Inc.

East Hanover, NJ 07936

<p>Patient Information INTRAROSA[®] (in trah ROE sah) (prasterone) vaginal inserts</p>
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<p>What is INTRAROSA vaginal inserts?</p>
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<p>INTRAROSA vaginal inserts are a prescription medicine used in women after menopause to treat moderate to severe pain during sexual intercourse caused by changes in and around the vagina that happen with menopause. It is not known if INTRAROSA vaginal inserts are safe and effective in children.</p>

<p>Do not use INTRAROSA vaginal inserts if you have vaginal bleeding that has not been checked by your healthcare provider.</p>
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<p>Before using INTRAROSA vaginal inserts, tell your healthcare provider about all of your medical conditions, including if you:</p>

- | |
|--|
| <ul style="list-style-type: none">• have, have had, or think you may have had breast cancer. Prasterone, an ingredient in INTRAROSA vaginal inserts, is changed in your body to estrogen. Estrogen medicines are not for use in women who have, have had, or think they may have had breast cancer.• are pregnant or plan to become pregnant. INTRAROSA is only for use in women who are past menopause. It is not known if INTRAROSA vaginal inserts will harm your unborn baby.• are breastfeeding or plan to breastfeed. INTRAROSA vaginal inserts are only for use in women who are past menopause. It is not known if INTRAROSA passes into your breast milk. |
|--|

<p>Tell your healthcare provider about all the medicines you take, including prescription and over-the-counter medicines, vitamins, and herbal supplements.</p>
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<p>How should I use INTRAROSA vaginal inserts?</p>

- | |
|--|
| <ul style="list-style-type: none">• See the Instructions for Use at the end of this Patient Information for detailed instructions about the right way to use INTRAROSA vaginal inserts.• Use INTRAROSA vaginal inserts exactly how your healthcare provider tells you to use it.• Place 1 INTRAROSA vaginal insert in your vagina one time each day at bedtime, using the applicator that comes with INTRAROSA vaginal inserts. |
|--|

<p>What are the possible side effects of INTRAROSA vaginal inserts?</p>
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<p>The most common side effects of INTRAROSA vaginal inserts are vaginal discharge and changes on Pap smear.</p>

<p>These are not all of the possible side effects of INTRAROSA vaginal inserts.</p>

<p>Call your doctor for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088.</p>
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<p>How should I store INTRAROSA vaginal inserts?</p>

- | |
|---|
| <ul style="list-style-type: none">• Store INTRAROSA vaginal inserts between 41°F to 86°F (5°C to 30°C). |
|---|

- INTRAROSA vaginal inserts can be stored at room temperature or in the refrigerator.

Keep INTRAROSA vaginal inserts and all medicines out of the reach of children.

General Information about the safe and effective use of INTRAROSA vaginal inserts.

Medicines are sometimes prescribed for purposes other than those listed in a Patient Information leaflet. Do not use INTRAROSA vaginal inserts for a condition for which it was not prescribed. Do not give INTRAROSA vaginal inserts to other people, even if they have the same symptoms that you have. It may harm them. You can ask your pharmacist or healthcare provider for information about INTRAROSA vaginal inserts that is written for health professionals.

What are the ingredients in INTRAROSA vaginal inserts?

Active ingredient: prasterone

Inactive ingredient: off-white hard fat (Witepsol)

For more information, go to www.intrarosa.com or call Millicent U.S. Inc at 1-877-810-2101.

Instructions for Use

INTRAROSA (in trah ROE sah)

(prasterone) vaginal inserts

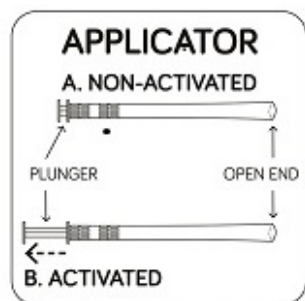
How should I use INTRAROSA vaginal inserts?

- INTRAROSA is a vaginal insert that you place in your vagina with an applicator that comes with INTRAROSA vaginal inserts.
- Use 1 INTRAROSA vaginal insert, one time each day at bedtime.
- Each applicator is for one time use only.
- Empty your bladder and wash your hands before handling the vaginal insert and applicator.
- Tear off 1 vaginal insert along the perforations from the 7-vaginal insert strip.

STEP 1

1a. Remove 1 applicator from the package.

1b. Pull back on the plunger until it stops to activate the applicator. The applicator must be activated before use. Place the applicator on a clean surface.



STEP 2

Slowly pull the plastic tabs on the vaginal insert away from each other while keeping the vaginal insert still between your fingers. Carefully remove the vaginal insert from the plastic wrap. If a vaginal insert falls on an unsanitary surface, replace it with a new one.



STEP 3

Place the flat end of the vaginal insert into the open end of the activated applicator as shown. You are now ready to insert the vaginal insert into your vagina.



STEP 4

Hold the applicator between your thumb and middle finger. Leave your index (pointer) finger free to press the applicator plunger after the applicator is inserted into your vagina.



STEP 5

Select the position for insertion of the vaginal insert that is most comfortable for you.

5a. Lying position



5b. Standing position



STEP 6

Gently slide the vaginal insert end of the applicator into your vagina as far as it will comfortably go.

Do not use force.



STEP 7

Press the applicator plunger with your index (pointer) finger to release the vaginal insert. Remove the applicator and throw it away after use.



For more information, go to www.intrarosa.com or call Millicent U.S. Inc at 1-877-810-2101.

This Patient Information and Instructions for Use have been approved by the U.S. Food and Drug Administration.

INTRAROSA[®] is a registered trademark of Endoceutics, Inc.

Manufactured for: Endoceutics, Inc., Quebec City, Canada, G1V 4M7

Distributed by: Millicent U.S. Inc., East Hanover, NJ 07936

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Issued: June 2020

PRINCIPAL DISPLAY PANEL - NDC: 72495-401-28 - Small Box (Inserts)

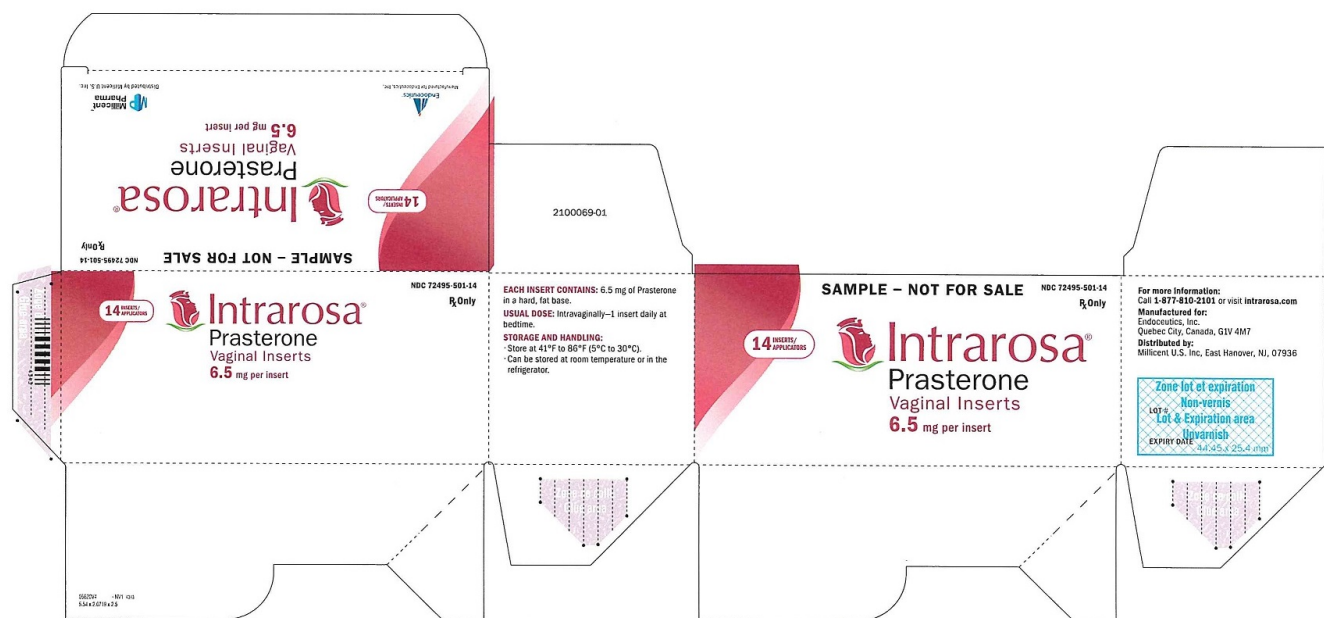
PRINCIPAL DISPLAY PANEL - NDC: 72495-401-28 - Outmost Large Box (Inserts plus Applicators)



PRINCIPAL DISPLAY PANEL - NDC: 72495-501-14 - Professional Sample Small Box (Inserts)



PRINCIPAL DISPLAY PANEL - NDC: 72495-501-14 - Professional Sample Outmost Large Box (Inserts plus Applicators)



INTRAROSA

prasterone insert

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:72495-501
Route of Administration	VAGINAL		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
PRASTERONE (UNII: 459 AG36T1B) (PRASTERONE - UNII:459 AG36T1B)	PRASTERONE	6.5 mg

Inactive Ingredients

Ingredient Name	Strength
HYDROGENATED COCO-GLYCERIDES (UNII: XDD37N2GPR)	

Product Characteristics

Color	white (White to off-white)	Score	no score
Shape	BULLET	Size	28 mm
Flavor		Imprint Code	
Contains			

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:72495-501-14	1 in 1 BOX	11/01/2020	
1		14 in 1 BOX		
1		1 in 1 BLISTER PACK; Type 4: Device Coated/Impregnated/Otherwise		

1	Combined with Drug		
Marketing Information			
Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
NDA	NDA208470	11/0 1/2020	

INTRAROSA

prasterone insert

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:72495-401
Route of Administration	VAGINAL		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
PRASTERONE (UNII: 459AG36T1B) (PRASTERONE - UNII:459AG36T1B)	PRASTERONE	6.5 mg

Inactive Ingredients

Ingredient Name	Strength
HYDROGENATED COCO-GLYCERIDES (UNII: XDD37N2GPR)	

Product Characteristics

Color	white (White to off-white)	Score	no score
Shape	BULLET	Size	28mm
Flavor		Imprint Code	
Contains			

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:72495-401-28	1 in 1 BOX	11/01/2020	
1		28 in 1 BOX		
1		1 in 1 BLISTER PACK; Type 4: Device Coated/Impregnated/Otherwise Combined with Drug		

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
NDA	NDA208470	11/01/2020	

Labeler - Millicent US, Inc. (081309152)

